

Appl. No. 10/799,065
Examiner: MAI, ANH T, Art Unit 2832
In response to the Office Action dated April 4, 2006

Date: June 30, 2006
Attorney Docket No. 10113891

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (currently amended): A transformer for a plurality of lighting tubes, comprising:

- a coupling iron core;
 - a first winding around the coupling iron core;
 - a first bobbin disposed between the first winding and the coupling iron core;
 - a plurality of second windings, independent of each other and respectively winding around the exterior of the first winding, wherein the second windings have the same winding number; and
 - a second bobbin disposed between the first winding and one second winding; and a third winding disposed between the first bobbin and the second bobbin, wherein the plurality of second windings generate high voltage signals induced from the first winding and the third winding;
- wherein each pair of the plurality of lighting tubes is connected in series and driven by one of the plurality of second windings.

Claim 2 (canceled)

Claim 3 (currently amended): The transformer as claimed in claim 1 ~~claim 2~~ further comprising a fourth winding disposed between the first bobbin and the second bobbin, wherein the plurality of second windings generate the high voltage signals induced from the first winding, the third winding and the fourth winding.

Claim 4 (original): The transformer as claimed in claim 1 further comprising a plurality of separators disposed around the exterior of the second bobbin, separation provided thereby accommodating the second windings.

Claim 5 (currently amended): A voltage supply circuit for a plurality of lighting tubes, comprising:

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a coupling iron core;
a first winding around the coupling iron core receiving a first voltage signal;
a first bobbin disposed between the first winding and the coupling iron core;
a second winding around the exterior of the first winding inductively generating a second voltage signal;
a second bobbin disposed between the first winding and the second winding; and
a third winding disposed between the first bobbin and the second bobbin, wherein the second winding generates the second voltage signal induced from the first winding and the third winding; and
a plurality of first lighting tubes, connected in series and driven by the second voltage signal.

Claim 6 (canceled)

Claim 7 (currently amended): The voltage supply circuit as claimed in claim 5 ~~claim 6~~ further comprising a fourth winding disposed between the first bobbin and the second bobbin, wherein the second winding generates the second voltage signal induced from the first winding, the third winding and the fourth winding.

Claim 8 (original): The voltage supply circuit as claimed in claim 5 further comprising a plurality of separators disposed around the exterior of the second bobbin, separation provided thereby accommodating the second winding.

Claim 9 (original): The voltage supply circuit as claimed in claim 5, wherein the first lighting tubes are connected in serial with and driven by the second voltage signal.

Claim 10 (currently amended): A voltage supply circuit, appropriate for a plurality of lighting tubes, comprising:

a coupling iron core;
a first winding around the coupling iron core receiving a first voltage signal;
a plurality of second windings, independent of each other, respectively winding around the exterior of the first winding, and inductively generating a plurality of second voltage signals, wherein the second windings have the same winding number;
a second bobbin disposed between the first winding and the second winding; and

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a third winding disposed between the first bobbin and the second bobbin, wherein the plurality of second windings generate the plurality of second voltage signals induced from the first winding and the third winding; and

a plurality of first lighting tubes, each pair of which is connected in series and driven by one of the second voltage signals.

Claim 11 (original): The voltage supply circuit as claimed in claim 10, wherein the first lighting tubes are discharge lighting tubes.

Claim 12 (original): The voltage supply circuit as claimed in claim 10 further comprising a plurality of second lighting tubes respectively connected in serial with the first lighting tubes.

Claim 13 (original): The voltage supply circuit as claimed in claim 10, wherein the first lighting tubes and the second lighting tubes are discharge lighting tubes.

Claim 14 (canceled)

Claim 15 (currently amended): The voltage supply circuit as claimed in claim 10 ~~claim 14~~ further comprising a fourth winding disposed between the first bobbin and the second bobbin, wherein the plurality of second windings generate the plurality of second voltage signals induced from the first winding, the third winding and the fourth winding.

Claim 16 (original): The voltage supply circuit as claimed in claim 10 further comprising a plurality of separators disposed around the exterior of the second bobbin, separation provided thereby accommodating the second winding.